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Entering Gr.1	Fluently add & subtract within 5 <b>Left Side Light Gray</b>	<table border="1"> <thead> <tr> <th>+</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0+0</td> <td>0+1</td> <td>0+2</td> <td>0+3</td> <td>0+4</td> <td>0+5</td> <td>0+6</td> <td>0+7</td> <td>0+8</td> <td>0+9</td> <td>0+10</td> </tr> <tr> <td>1</td> <td>1+0</td> <td>1+1</td> <td>1+2</td> <td>1+3</td> <td>1+4</td> <td>1+5</td> <td>1+6</td> <td>1+7</td> <td>1+8</td> <td>1+9</td> <td>1+10</td> </tr> <tr> <td>2</td> <td>2+0</td> <td>2+1</td> <td>2+2</td> <td>2+3</td> <td>2+4</td> <td>2+5</td> <td>2+6</td> <td>2+7</td> <td>2+8</td> <td>2+9</td> <td>2+10</td> </tr> <tr> <td>3</td> <td>3+0</td> <td>3+1</td> <td>3+2</td> <td>3+3</td> <td>3+4</td> <td>3+5</td> <td>3+6</td> <td>3+7</td> <td>3+8</td> <td>3+9</td> <td>3+10</td> </tr> <tr> <td>4</td> <td>4+0</td> <td>4+1</td> <td>4+2</td> <td>4+3</td> <td>4+4</td> <td>4+5</td> <td>4+6</td> <td>4+7</td> <td>4+8</td> <td>4+9</td> <td>4+10</td> </tr> <tr> <td>5</td> <td>5+0</td> <td>5+1</td> <td>5+2</td> <td>5+3</td> <td>5+4</td> <td>5+5</td> <td>5+6</td> <td>5+7</td> <td>5+8</td> <td>5+9</td> <td>5+10</td> </tr> <tr> <td>6</td> <td>6+0</td> <td>6+1</td> <td>6+2</td> <td>6+3</td> <td>6+4</td> <td>6+5</td> <td>6+6</td> <td>6+7</td> <td>6+8</td> <td>6+9</td> <td>6+10</td> </tr> <tr> <td>7</td> <td>7+0</td> <td>7+1</td> <td>7+2</td> <td>7+3</td> <td>7+4</td> <td>7+5</td> <td>7+6</td> <td>7+7</td> <td>7+8</td> <td>7+9</td> <td>7+10</td> </tr> <tr> <td>8</td> <td>8+0</td> <td>8+1</td> <td>8+2</td> <td>8+3</td> <td>8+4</td> <td>8+5</td> <td>8+6</td> <td>8+7</td> <td>8+8</td> <td>8+9</td> <td>8+10</td> </tr> <tr> <td>9</td> <td>9+0</td> <td>9+1</td> <td>9+2</td> <td>9+3</td> <td>9+4</td> <td>9+5</td> <td>9+6</td> <td>9+7</td> <td>9+8</td> <td>9+9</td> <td>9+10</td> </tr> <tr> <td>10</td> <td>10+0</td> <td>10+1</td> <td>10+2</td> <td>10+3</td> <td>10+4</td> <td>10+5</td> <td>10+6</td> <td>10+7</td> <td>10+8</td> <td>10+9</td> <td>10+10</td> </tr> </tbody> </table>	+	0	1	2	3	4	5	6	7	8	9	10	0	0+0	0+1	0+2	0+3	0+4	0+5	0+6	0+7	0+8	0+9	0+10	1	1+0	1+1	1+2	1+3	1+4	1+5	1+6	1+7	1+8	1+9	1+10	2	2+0	2+1	2+2	2+3	2+4	2+5	2+6	2+7	2+8	2+9	2+10	3	3+0	3+1	3+2	3+3	3+4	3+5	3+6	3+7	3+8	3+9	3+10	4	4+0	4+1	4+2	4+3	4+4	4+5	4+6	4+7	4+8	4+9	4+10	5	5+0	5+1	5+2	5+3	5+4	5+5	5+6	5+7	5+8	5+9	5+10	6	6+0	6+1	6+2	6+3	6+4	6+5	6+6	6+7	6+8	6+9	6+10	7	7+0	7+1	7+2	7+3	7+4	7+5	7+6	7+7	7+8	7+9	7+10	8	8+0	8+1	8+2	8+3	8+4	8+5	8+6	8+7	8+8	8+9	8+10	9	9+0	9+1	9+2	9+3	9+4	9+5	9+6	9+7	9+8	9+9	9+10	10	10+0	10+1	10+2	10+3	10+4	10+5	10+6	10+7	10+8	10+9	10+10																																																				
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Entering Gr.3	Fluently add & subtract within 20 <b>All addition Facts listed and related subtraction facts</b>	<p>Use these addition facts to make flash cards and work with your child this summer. Once he/she masters addition, use this list to practice related subtraction facts.</p>																																																																																																																																																																																																				
Entering Gr.4	Fluently add & subtract within 20 Know multiplication facts through 10 x 10 and related Division facts	<table border="1"> <thead> <tr> <th>X</th> <th>0</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> <th>10</th> <th>11</th> <th>12</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>0x0</td> <td>0x1</td> <td>0x2</td> <td>0x3</td> <td>0x4</td> <td>0x5</td> <td>0x6</td> <td>0x7</td> <td>0x8</td> <td>0x9</td> <td>0x10</td> <td>0x11</td> <td>0x12</td> </tr> <tr> <td>1</td> <td>1x0</td> <td>1x1</td> <td>1x2</td> <td>1x3</td> <td>1x4</td> <td>1x5</td> <td>1x6</td> <td>1x7</td> <td>1x8</td> <td>1x9</td> <td>1x10</td> <td>1x11</td> <td>1x12</td> </tr> <tr> <td>2</td> <td>2x0</td> <td>2x1</td> <td>2x2</td> <td>2x3</td> <td>2x4</td> <td>2x5</td> <td>2x6</td> <td>2x7</td> <td>2x8</td> <td>2x9</td> <td>2x10</td> <td>2x11</td> <td>2x12</td> </tr> <tr> <td>3</td> <td>3x0</td> <td>3x1</td> <td>3x2</td> <td>3x3</td> <td>3x4</td> <td>3x5</td> <td>3x6</td> <td>3x7</td> <td>3x8</td> <td>3x9</td> <td>3x10</td> <td>3x11</td> <td>3x12</td> </tr> <tr> <td>4</td> <td>4x0</td> <td>4x1</td> <td>4x2</td> <td>4x3</td> <td>4x4</td> <td>4x5</td> <td>4x6</td> <td>4x7</td> <td>4x8</td> <td>4x9</td> <td>4x10</td> <td>4x11</td> <td>4x12</td> </tr> <tr> <td>5</td> <td>5x0</td> <td>5x1</td> <td>5x2</td> <td>5x3</td> <td>5x4</td> <td>5x5</td> <td>5x6</td> <td>5x7</td> <td>5x8</td> <td>5x9</td> <td>5x10</td> <td>5x11</td> <td>5x12</td> </tr> <tr> <td>6</td> <td>6x0</td> <td>6x1</td> <td>6x2</td> <td>6x3</td> <td>6x4</td> <td>6x5</td> <td>6x6</td> <td>6x7</td> <td>6x8</td> <td>6x9</td> <td>6x10</td> <td>6x11</td> <td>6x12</td> </tr> <tr> <td>7</td> <td>7x0</td> <td>7x1</td> <td>7x2</td> <td>7x3</td> <td>7x4</td> <td>7x5</td> <td>7x6</td> <td>7x7</td> <td>7x8</td> <td>7x9</td> <td>7x10</td> <td>7x11</td> <td>7x12</td> </tr> <tr> <td>8</td> <td>8x0</td> <td>8x1</td> <td>8x2</td> <td>8x3</td> <td>8x4</td> <td>8x5</td> <td>8x6</td> <td>8x7</td> <td>8x8</td> <td>8x9</td> <td>8x10</td> <td>8x11</td> <td>8x12</td> </tr> <tr> <td>9</td> <td>9x0</td> <td>9x1</td> <td>9x2</td> <td>9x3</td> <td>9x4</td> <td>9x5</td> <td>9x6</td> <td>9x7</td> <td>9x8</td> <td>9x9</td> <td>9x10</td> <td>9x11</td> <td>9x12</td> </tr> <tr> <td>10</td> <td>10x0</td> <td>10x1</td> <td>10x2</td> <td>10x3</td> <td>10x4</td> <td>10x5</td> <td>10x6</td> <td>10x7</td> <td>10x8</td> <td>10x9</td> <td>10x10</td> <td>10x11</td> <td>10x12</td> </tr> <tr> <td>11</td> <td>11x0</td> <td>11x1</td> <td>11x2</td> <td>11x3</td> <td>11x4</td> <td>11x5</td> <td>11x6</td> <td>11x7</td> <td>11x8</td> <td>11x9</td> <td>11x10</td> <td>11x11</td> <td>11x12</td> </tr> <tr> <td>12</td> <td>12x0</td> <td>12x1</td> <td>12x2</td> <td>12x3</td> <td>12x4</td> <td>12x5</td> <td>12x6</td> <td>12x7</td> <td>12x8</td> <td>12x9</td> <td>12x10</td> <td>12x11</td> <td>12x12</td> </tr> </tbody> </table>	X	0	1	2	3	4	5	6	7	8	9	10	11	12	0	0x0	0x1	0x2	0x3	0x4	0x5	0x6	0x7	0x8	0x9	0x10	0x11	0x12	1	1x0	1x1	1x2	1x3	1x4	1x5	1x6	1x7	1x8	1x9	1x10	1x11	1x12	2	2x0	2x1	2x2	2x3	2x4	2x5	2x6	2x7	2x8	2x9	2x10	2x11	2x12	3	3x0	3x1	3x2	3x3	3x4	3x5	3x6	3x7	3x8	3x9	3x10	3x11	3x12	4	4x0	4x1	4x2	4x3	4x4	4x5	4x6	4x7	4x8	4x9	4x10	4x11	4x12	5	5x0	5x1	5x2	5x3	5x4	5x5	5x6	5x7	5x8	5x9	5x10	5x11	5x12	6	6x0	6x1	6x2	6x3	6x4	6x5	6x6	6x7	6x8	6x9	6x10	6x11	6x12	7	7x0	7x1	7x2	7x3	7x4	7x5	7x6	7x7	7x8	7x9	7x10	7x11	7x12	8	8x0	8x1	8x2	8x3	8x4	8x5	8x6	8x7	8x8	8x9	8x10	8x11	8x12	9	9x0	9x1	9x2	9x3	9x4	9x5	9x6	9x7	9x8	9x9	9x10	9x11	9x12	10	10x0	10x1	10x2	10x3	10x4	10x5	10x6	10x7	10x8	10x9	10x10	10x11	10x12	11	11x0	11x1	11x2	11x3	11x4	11x5	11x6	11x7	11x8	11x9	11x10	11x11	11x12	12	12x0	12x1	12x2	12x3	12x4	12x5	12x6	12x7	12x8	12x9	12x10	12x11	12x12
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Entering Gr.5 and Gr. 6	Fluently add & subtract within 20 Know multiplication facts through 12 x 12 and related Division facts	<p>*Facts highlighted in gray are the most difficult*</p> <p>Students use what they know about multiplication and fact family relationships to answer division facts. "What times 5 is 45? 9! So 45 divided by 5 = 9."</p>																																																																																																																																																																																																				

The purpose of the basic fact practice is to ensure all students attain fluency with their grade-level math facts. Students achieve fact fluency when they can automatically recall a fact. If your child has fact fluency we recommend moving onto solving story problems and applying their math knowledge when selecting activities for summer math work.

In Norwood, we are following the path set forth by the state of Massachusetts. You may always send me a question or concern. My e-mail is [jmilton@norwood.k12.ma.us](mailto:jmilton@norwood.k12.ma.us).

**Jill K. Milton**, Elementary Math Coordinator, Norwood Public Schools